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Kimberlite Terminology And Classification

A rationalisation of kimberlite terminology and classification is presented in a practical, systematic framework or scheme. The scheme has five stages and is based on progressively increasing...

(PDF) Kimberlite Terminology and Classification

A rationalisation of kimberlite terminology and classification is presented in a practical, systematic framework or scheme. The scheme has five stages and is based on

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progressively increasing levels of interpretation building upon a series of descriptors that are applied independently of, and prior to, genetic classifications.

Kimberlite Terminology and Classification | SpringerLink

Kimberlite is an igneous rock, which sometimes contains diamonds. It is named after the town of Kimberley in South Africa , where the discovery of an 83.5-carat (16.70 g) diamond called the Star of South Africa in 1869 spawned a diamond rush and the digging of the open-pit mine called the Big Hole .

Kimberlite - Wikipedia

Pyroclastic kimberlites can be assigned into two main classes: Kimberley type (formerly tuffisitic kimberlite) and Fort à la Corne-type (formerly pyroclastic kimberlite).

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into intrusive kimberlite or extrusive kimberlite, and Kimberlite Terminology and Classification rock is kimberlite or similar related rock with the potential to contain diamonds and, ii) to identify different phases of kimberlite intrusion or eruption within a particular body.

Stage 4: Textural-Genetic Classification

Two stages of textural-genetic classification (Table 1) require increasing information and

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Kimberlite Classification. Based on studies on a large number of kimberlite deposits, geologists divided the kimberlites into 3 separate units based on their morphology and petrology.

These units are: Crater Facies Kimberlite; Diatreme Facies Kimberlite; Hypabyssal Facies Kimberlite; 1) Crater Facies Kimberlite

Kimberlite | Properties, Composition, Formation » Geology

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Kimberlite, also called blue ground, a dark-coloured, heavy, often altered and brecciated (fragmented), intrusive igneous rock that contains diamonds in its rock matrix. It has a porphyritic texture, with large, often rounded crystals (phenocrysts) surrounded by a fine-grained matrix (groundmass).

Kimberlite | rock | Britannica

rock is kimberlite or similar related rock with the potential to contain diamonds and, ii) to identify different phases of kimberlite intrusion or eruption within a particular body. Stage 4: Textural-Genetic Classification Two stages of textural-genetic classification (Table 1) require increasing information and interpretation. The

Kimberlites: Descriptive Geological Nomenclature and ...

Classification Textural-Genetic
Classification Genetic / Process
Interpretation Extrusive (effusive):

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extrusive coherent (ECK) [descriptors]
kimberlite Epiclastic Kimberlitic
Volcanogenic Sediment (EK) or (KVS)
Use standard terminology Setting:
Sample details: Scope of study:
Contacts: geographic; tectonic;
geological; structural; igneous ...

Kimberlites: Descriptive Geological Nomenclature and ...

A new classification is therefore proposed based on the relative abundances in kimberlites of five primary minerals. These minerals are diopside, monticellite, phlogopite, calcite and serpentine.

Mineralogical Classification of Southern African Kimberlites

Magmaclast is a descriptive term for physically-distinct, fluidal-shaped bodies of kimberlite magma (now solidified) formed by any process of magma disruption prior to solidification, typically during near-surface emplacement.

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Magmaclasts in Kimberlite

The composition of the replacing ilmenite in terms of minor elements inherits the composition of the replaced minerals, as noted in other kimberlites [37,39]. The site 73 kimberlite emplacement age has been estimated to be 155 Ma using zircon fission-track dating and 190 Ma using K-Ar of phlogopite [8].

Minerals | Free Full-Text | Magma Mingling in Kimberlites ...

The Gates-Adah Kimberlite dike is a NW-SE striking vertical ultramafic igneous intrusion located in Adah, southwestern Pennsylvania. A previous compositional study of the kimberlite considered classifying the kimberlite, either Group I or Group II, to be problematic.

Geochemical Analysis and Classification of the Gates-Adah ...

Kimberlite is the term coined in the late 19th century to describe “the matrix to diamond” when it was realised that the

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second South African diamond rush deposits were not alluvial but of volcanic origin. Today, kimberlite geology is the foundation of diamond mines.

Kimberlites - from Mantle to Mine

A new petrological definition of kimberlite is proposed and discussed.

Kimberlite Redefined | The Journal of Geology

Classification based on the textural and genetic variations: This model proposed by Clement and Skinner, (1979) relying on textural features identifies three genetic facies of kimberlite rocks. 1) Crater Facies Kimberlite 2) Diatreme Facies Kimberlite

ALEX STREKEISEN-Kimberlite-

A new classification concept for all 'lamprophyres' was presented by Rock (1987, 1991), where he included kimberlites and lamproites with ultramafic, alkaline and calc-alkaline lamprophyres into his 'lamprophyre

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clan'. Mitchell (1994 a, 1994 b) disputed the concept of a lamprophyre clan and suggested its use be discontinued.

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